AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A substrate transfer apparatus for a component mounting machine, for transferring a substrate into to a mounting process station in which components are mounted onto the substrate and transferring the substrate from said the mounting process station, the apparatus comprising:

a mounting-waiting process station for making the substrate to be transferred into to the mounting process station wait before the mounting process station; and

a substrate discharge-waiting process station for making the substrate, after being transferred from the mounting process station, wait before a following process station; [[,]]

wherein transfer of an unmounted a mount-less substrate from said the mounting-waiting process station to the mounting process station, and transfer of a mounted substrate, for which mounting has been done in the mounting process station, from the mounting process station to the substrate discharge-waiting process station are performed simultaneously; and [[,]]

characterized in that detecting means are wherein a detector is provided at the substrate discharge-waiting station for detecting that to detect when a plurality of substrates have been transferred into the substrate discharge-waiting process station as part of the same transfer, the detector including a substrate-arrival detecting sensor configured to detect the transfer of the mounted substrate to the discharge-waiting station and a substrate-continuity detecting sensor provided upstream of the substrate-arrival detecting sensor, the substrate-continuity detecting sensor being located at a position so as to detect when a following substrate, which immediately follows the transferred mounted substrate, has been transferred simultaneously with the transferred mounted substrate, to the discharge-waiting station.

2. (Canceled).

- 3. (Currently Amended) The substrate transfer apparatus for a component mounting machine according to claim **[[2]]** $\underline{1}$, wherein the substrate-continuity detecting sensor is arranged <u>located</u> at a position that satisfies X < XS < 2X, where \underline{XS} is a distance from the substrate-arrival detecting sensor to the substrate-continuity detecting sensor is \underline{XS} and \underline{X} is a substrate dimension in the substrate transfer direction—is \underline{XS} .
- 4. (Previously Presented) The substrate transfer apparatus for a component mounting machine according to claim 3, wherein the substrate-continuity

detecting sensor is arranged to be movable to the position that satisfies X < XS < 2X.

- 5. (Previously Presented) The substrate transfer apparatus for a component mounting machine according to claim 3, wherein the substrate-continuity detecting sensor is constructed to be automatically movable to the position that satisfies X < XS < 2X, in accordance with the substrate dimension X in the substrate transfer direction.
- 6. (Currently Amended) The substrate transfer apparatus for a component mounting machine according to claim 1, wherein the detecting means includes: a substrate arrival detecting sensor for detecting the mounted substrate transferred into the substrate discharge waiting process; and substrate-continuity detecting sensor comprises a plurality of substrate-continuity detecting sensors, provided upstream of the substrate-arrival detecting sensor at different positions and spaced from one another in a substrate transfer direction from one another, for detecting an unmounted substrate being transferred at the same time as the mounted substrate.
- 7. (Currently Amended) The substrate transfer apparatus for a component mounting machine according to claim 6, wherein the substrate-continuity detecting sensors are configured to detect an unmounted the following substrate by based upon a substrate-detection state of one of the plurality of substrate-

continuity detecting sensors that is located at a position satisfying X < XS < 2X, where \underline{XS} is a distance from the substrate-arrival detecting sensor to the one substrate-continuity detecting sensor is \underline{XS} and \underline{X} is a substrate dimension in the substrate transfer direction is \underline{X} .

- 8. (Currently Amended) The substrate transfer apparatus for a component mounting machine according to claim 6, wherein the substrate transfer apparatus includes a minimum required number of the substrate-continuity detecting sensors by arranging N sensors that satisfy $2^N \times P_min > P_max$ at positions determined by $2^n \times P_min = 2$ (n = 1, 2, ..., N) from a minimum substrate size (P_min) and to a maximum substrate size (P_max) in the substrate transfer direction, respectively, for with which the electronic component mounting machine is intended usable.
- 9. (Currently Amended) The substrate transfer apparatus for a component mounting machine according to claim 7, wherein the substrate transfer apparatus includes a minimum required number of the substrate-continuity detecting sensors by arranging N sensors that satisfy $2^N \times P_min > P_max$ at positions determined by $2^n \times P_min = 2$ (n = 1, 2, ..., N) from a minimum substrate size (P_min) and to a maximum substrate size (P_max) in the substrate transfer direction, respectively, for with which the electronic component mounting machine is intended usable.

10 (New) A method for transferring a substrate to a mounting station at which components are mounted onto the substrate and transferring the component mounted substrate from the mounting station, the method comprising:

providing a mount-waiting station at which the substrate can wait prior to being transferred to the mounting station;

providing a substrate discharge-waiting station at which the component mounted substrate can wait prior to being transferred to a following station;

transferring a mount-less substrate from the mount-waiting station to the mounting station and simultaneously transferring a component mounted substrate, which has been received by the mounting station, from the mounting station to the substrate discharge-waiting station;

providing a detector at the substrate discharge-waiting station to detect when a plurality of substrates have been transferred into the substrate discharge-waiting station as part of the same transfer, the detector including a substrate-arrival detecting sensor configured to detect the transfer of the component mounted substrate to the discharge-waiting station and a substrate-continuity detecting sensor provided upstream of the substrate-arrival detecting sensor, the substrate-continuity detecting sensor being provided at a position so as to detect when a following substrate, which immediately follows the transferred component mounted substrate, has been transferred simultaneously with the transferred component mounted substrate to the discharge-waiting station; and

arranging the substrate-continuity detecting sensor at a position that satisfies X < XS < 2X, where XS is a distance from the substrate-arrival detecting

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sensor to the substrate-continuity detecting sensor and X is a substrate dimension in the substrate transfer direction.